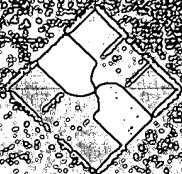


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Omni - MVA Hardware Overview



XYLAND



XxTAN

What is it?

- ✓ 10 gigabit frame switch
- ✓ 6.6 million frames per second
- ✓ Compatible with OmniSwitch & OmniCell
 - User can save existing modules
- ✓ Optimized for 100BaseTx Ethernet
- ✓ OmniCell backplane



XYLANI

What's needed?

✓ New ASICs

- Frame Fabric
- "Super" CAM
- Mammoth II

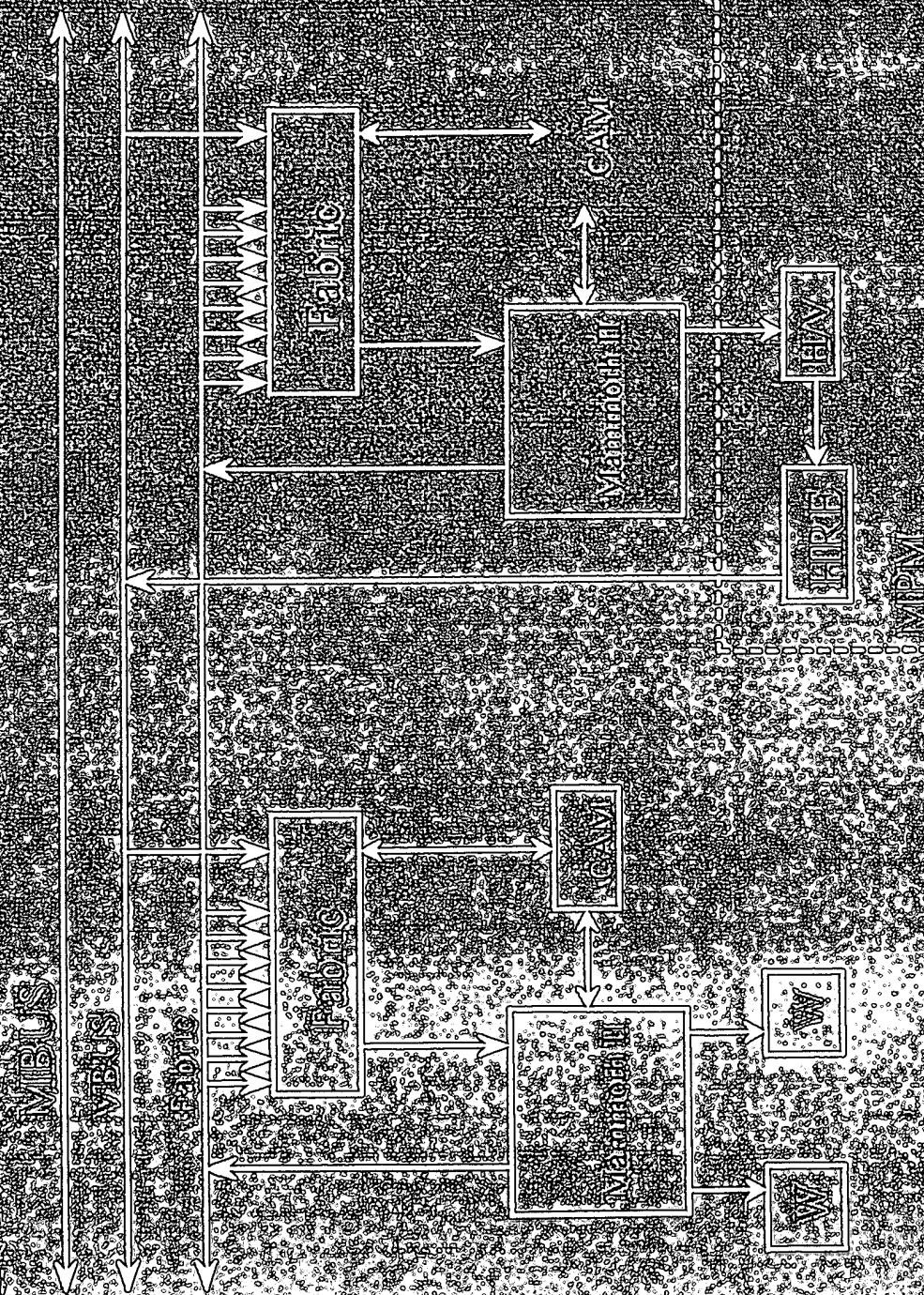
✓ New Modules

- MPM
- 100 BaseTX
- Gigabit Ethernet
- 24-32 port 10BaseT



Xylem

System Structure





XILAN

Frame Fabric

✓ Eight 1.24 gigabit links

■ 16 bits 80 Mhz, GTL

✓ VBUS format

✓ VBUS claim process

✓ "real" VBUS as well

■ Interoperability with OmniSwitch cars

✓ Synchronous design



XTREME

"Super" CAM

✓ Lookup every 5 clocks

✓ Dual-ported

■ Fabric & Mammoth ports

✓ Eliminate command overhead

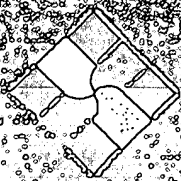


Mammoth II

XYLAN

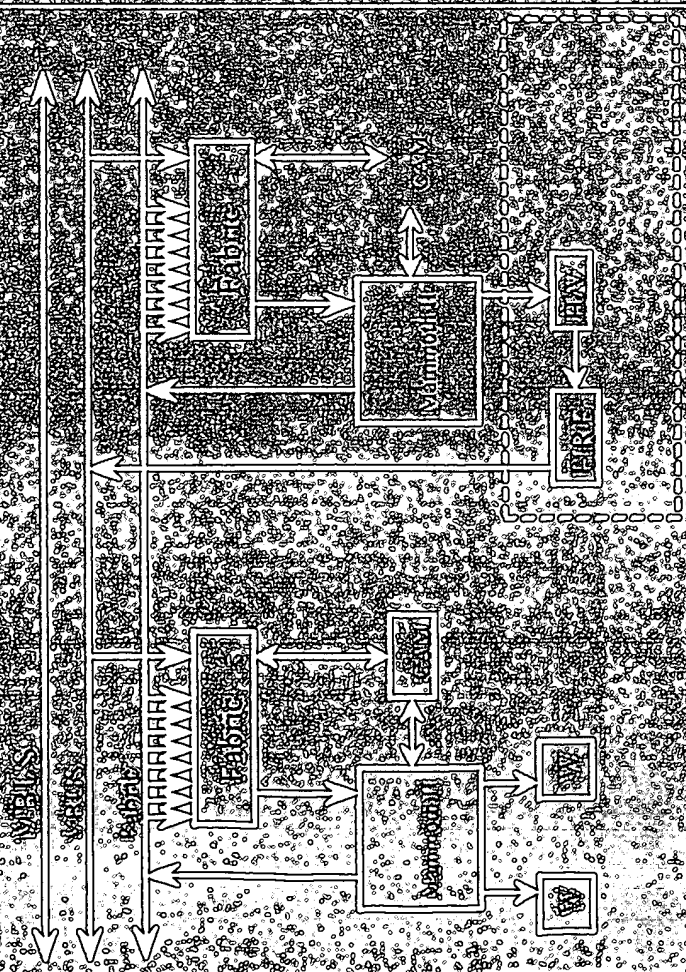
✓ Modified two HBUS to use fabric

✓ Modified for new CAM



XXLAN

Fabric Operation



✓ Claiming decision made every 5 clocks

□ 6.6 Million/sec

✓ Each slot gets transmit opportunity every 40 clocks

✓ Fabric has internal buffering for all links



XYLAN

Backward Compatibility

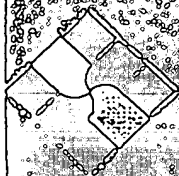
- ✓ Enabled by use of OmniCell backplane
- ✓ New MPM acts as a bridge
 - 1.24 gigabits bandwidth
- ✓ Unused links available for OmniCell



XYLEM

New MPM

- ✓ Based on current MPM design
- ✓ Addition of Fabric and Mammoth-II
- ✓ HRE support
 - Conversion of HBUS to VBUS
- ✓ RMON option
 - Full 10 levels



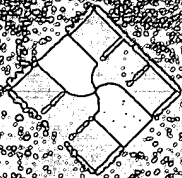
XYLAN

New Switching Modules

✓ 8 port 100BaseTx

✓ 32 port 10BaseT

✓ 1 port Gigabit Ethernet



XTREME

Cost Targets



X^YLAN

Packaging

- ✓ 5 and 9 slot chassis
- ✓ 1.4" slot pitch
- ✓ Dual load sharing power
- ✓ Hot swap fans, power, modules

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